

ABSTRACT

An extensible, data-driven, language independent source code editor is presented, with an embedded, extensible multi-language compiler framework. Such an editor can be tightly integrated with a compiler framework that provides detailed information about the language currently being edited by the user. This information can be provided in a language-neutral way effectively decoupling the editor from the underlying set of languages being edited. In addition, a language-independent editor can expose a set of APIs that makes it easy to customize behavior for specific languages that have characteristics not shared by most languages. This set of APIs can also enable the development of customized views, such as for developing visual editors that represent and allow the user to manipulate aspects of the source code pictorially.

This description is not intended to be a complete description of, or limit the scope of, the invention. Other features, aspects, and objects of the invention can be obtained from a review of the specification, the figures, and the claims.